# Abhishek Venkatesh

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## Education

**MS. Computer Science,** University of Southern California, Los Angeles, CA          **Expected May 2022**
- Courses: Analysis of Algorithms, Introduction to Programming Systems Design

**BA. Computer Science**, Lawrence University, Appleton, WI          **June 2020**
- Minors: Mathematics, Economics, GPA: 3.45
- Dean's List: 2016-2020, Cum Laude honors, Delta Tau Delta Fraternity - Secretary

**NCAA Division III Basketball.** Guard, Lawrence University          **Sep 2016 - Feb 2020**
- All Midwest Conference academic team (2016-2020)

## Experience

**Software Analyst (Intern).** Huron Consulting Group. Lake Oswego, OR          **June 2019 - August 2019**
- Improved Data Extraction process efficiency by 1000% for applications supporting revenue cycle reports.
- Created dynamic SQL stored procedures to extract and consolidate report usage across 20 hospitals.
- Wrote PowerShell scripts to create weekly jobs that automate data retrieval.
- Built specification templates to import and cleanse data from newly acquired hospitals.

**Software Developer (Intern).** Blokur Ltd. London, UK          **March 2019 - June 2019**
- Developed Blockchain prototype in GoLang to generate Merkle proofs on Ethereum blockchain for music datasets.
- Wrote PostgreSQL queries to extract and serialize data from database used as blueprints for Merkle tree leaves.
- Utilized Go-Ethereum, Solidity, and Smart Contracts platform that store mappings between data and root hashes
- Implemented end to end UI mechanism to validate rights data in Merkle roots against contracts on the blockchain.

**Software Engineer (Intern).** Kaiser Permanente. Beaverton, OR          **July 2018 - September 2018**
- Automated a file transfer mechanism utilizing Python, Test-Driven Development, and regular expressions.
- Enabled secure local machine authentication using SSH/SFTP protocols to move files from host path to target path.
- Executed unit test cases for directory identification and file matching using Pytest and Paramiko implementations.

## Software Projects

**Tango (YC Startup School):** Mobile retail-dating app that promotes real-world interactions and experiences by offering targeted discounts to a marketplace of local attractions. www.tangoapp.biz.
*Experience*: Built out front-end and back-end structure utilizing Swift MVC and Storyboard that is scalable to all iPhones. Designed and implemented cloud data pipeline architecture using MongoDB Atlas and AWS EC2 hosted server to efficiently scale towards thousands of users in multiple cities.

**ParkVision:** Deep learning app that uses computer vision to optimize open parking space identification in a parking lot.
*Experience:* Utilized Python and OpenCV to locate individual parking spaces. Developed CNN using TensorFlow and Keras to efficiently predict availability of parking spaces. Constructed Flask web app to run application on uploaded lot images.

## Skills

- **Programming Languages:** Python, C++, Java, Swift, Go, R, SQL, JavaScript, CSS, HTML, Excel, Solidity, Prolog
- **Competencies:** NoSQL (MongoDB), Git, Agile/Scrum, TensorFlow, Keras, OpenCV, Deep Learning, Blockchain, Geth